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Descriptions of new species of ORTHOPTERA,
in the collection of the American Entomological Society.

BY SAMUEL H. SCUDDER.

Xiphidium attenuatum.

Green, mottled with reddish-brown; a reddish-brown median stripe extends from the tip of the vertical tubercle backwards to the posterior border of the pronotum, broadening posteriorly; the color is more distinct upon the head; tubercle of vertex nearly as long as the first antennal joint, well rounded in front, laterally hollowed. Tegmina nearly twice as long as the body; wings extending considerably beyond the tegmina. Ovipositor exceedingly long, fully twice the length of the body. Length of body ♂ 12 mm., ♀ 12.5 mm.; of antennæ ♂ 48 mm., ♀ 54 mm.; of tegmina ♂ 17 mm., ♀ 20 mm.; of wings ♂ 20 mm., ♀ 23.5 mm.; of hind femora ♂ 12 mm., ♀ 14 mm.; of ovipositor 27.5 mm.

One ♂, one ♀. Illinois.

Opomala aptera.

Head streaked with reddish testaceous and dull yellowish; upper edge of clypeus bordered with whitish; clypeus and labrum dotted with fuscous; joints of palpi blackish at base; antennæ brownish; prolongation of vertex as long as the eye, the sides parallel, the front well rounded. Prothorax, abdomen and appendages brownish, the median and lateral carinæ of pronotum distinct, rather sharp. Tegmina slender, lanceolate, nearly abortive; wings wanting. Length of body 35 mm.; of antennæ 7.5 mm.; of hind femora 15.5 mm.; of tegmina 6 mm.

One ♀. Pennsylvania.

Gomphocerus simplex.

Front of head dark brownish yellow, spotted with fuscous; clypeus and labrum dirty olivaceous, flecked with fuscous; median carina on summit of head and approximate lateral carinæ slight but distinct, testaceous; between the two brownish fuscous; a broad blackish fuscous streak from the upper edge of the eye backward, bordered above by a black line lying next to the lateral carinæ; another broad dull blackish fuscous band running backward from the lower edge of the eye; antennæ testaceo-fuscous at base, blackish fuscous at tip, the terminal eight or nine joints depressed, forming an elongated club. Median carina of pronotum slight, testaceous; lateral carinæ rather prominent, yellow, bordered on either side, but especially interiorly, with black; top of pronotum brownish-fuscous, deepening in tint toward the lateral carinæ;

sides of pronotum brownish yellow, clouded with fuscous. Tegmina testaceous, diaphanous toward the apex; wings pellucid, slightly clouded along the costal border. Hind legs brownish testaceous, the superior carina of femora interrupted with black, spines of hind tibiæ tipped with black. Length of body 16.5 mm.; of antennæ 6 mm.; of tegmina 13 mm.; of hind femora 10 mm.

One ♂. Delaware.

Edipoda carinata.

Head blackish, profusely streaked and spotted with dull bluish white; frontal carinæ and upper border of clypeus edged with whitish; palpi blackish, the joints tipped with luteous. Pronotum dull dark brownish fuscous, with a short pale streak behind the lower edge of the eye; hinder edge of pronotum forming less than a right angle; median carina very prominent, whole, sharp, rounded. Basal third of tegmina dark brownish fuscous; beyond ash gray, profusely and rather regularly sprinkled with small brownish spots; basal half of wings pale dull orange, bordered by a broad blackish fuscous band, occupying the rest of the wing, excepting the apex, and encroaching on the orange near the costal margin, as in *Æ. xanthoptera*; apex semi-pellucid, a little fuliginous, darker at the very tip. Hind femora dull dirty hoary without, black with three transverse white bands within, the tibiæ blackish brown with black spines and a broad pale band near the base. Length of body 30 mm.; of tegmina 30 mm.; of hind tibiæ 14.5 mm.

One ♀. No locality. I have specimens in my own collection from Iowa.

Tettix femorata.

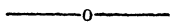
Vertex but little broader than one of the eyes, barely projecting in advance of them, the front scarcely rounded. Pronotum reaching to the tip of the abdomen, not including the ovipositor; median carina very prominent, slightly arched; surface of the pronotum arenose. Tegmina small, well rounded, with shallow punctulations; wings not surpassing the tegmina in length. Hind femora very broad and stout. Length of body 9.5 mm.; of pronotum 8 mm.; width of pronotum at the base of the tegmina 2.5 mm.; length of tegmina 1.6 mm.; breadth of tegmina .7 mm.; length of hind femora 5.25 mm.; breadth of hind femora 2 mm.

One ♀. Maryland.

Ischnoptera hyalina.

Head pale testaceous, slightly obscured with reddish brown; eyes blackish; first two antennal joints testaceous, remainder brownish fuscous, delicately and sparsely pubescent; mouth parts pale testaceous. Pronotal shield pale testaceous, the outer border paler. Tegmina nearly uniform pale testaceous, the costal border for nearly one-third the length of the wing paler. Coxæ brownish fuscous; femora and tibiæ pale testaceous; tarsi, like the tibial spines, a little darker. Abdomen blackish fuscous, darker posteriorly. Length of antennæ 25 mm.; of pronotum 4.25 mm.; breadth of pronotum 6 mm.; length of tegmina 21.5 mm.

One ♂ . Delaware.

**On the structural characters of *POLYOMMATUS TARQUINIUS*.**

BY AUG. R. GROTE.

In this species the antennae are relatively short; the "club" long and narrow. The head is well sized, held free from the thorax. The labial palpi are long, well advanced beyond the front, divaricate, the elongated third article slender and thinly scaled, curving slightly upwards. The thorax is large and full. The legs unarmed and thinly scaled, moderate, the anterior pair more slender and shorter than the middle and hind pairs. The wings are entire and ample; primaries triangulate; secondaries rounded. The primaries are slightly arcuate along the costa, straight along internal margin, rounded along the full external margin which retires slightly before the determinate internal angle. The anterior wing is dilated at its outer third; the median nervules well separated. The primaries have eleven veins or veinlets. The costal vein is simple, joining the costa a little beyond the middle. The subcostal throws off the 1st, 2nd and 3rd s. c. veinlets on the costal margin, these veinlets approximate and parallel in their course. The 3rd s. c. is very slightly further removed from the 2nd than this latter from the 1st, and is furcate before the margin, sending out the 4th s. c. outwardly to the apex of the wing. The 5th s. c. joins the external margin and is widely separate from the 4th. The cell is not closed; the independent vein simple and straight. Three median veinlets, the 1st and 2nd springing from one point, divaricate. The internal vein is straight. The secondaries have nine veins or veinlets. The